## ABSTRACT OF THE DISCLOSURE

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of depositing a low Provided herein is a method resistivity tungsten film onto a wafer comprising the steps of introducing a metalorganic tungsten-containing compound into a deposition chamber of a CVD apparatus; maintaining the deposition chamber at a pressure and the wafer at a temperature suitable for the high pressure chemical vapor deposition of the tungsten film onto the wafer; thermally decomposing the tungsten-containing compound in the deposition chamber; and vapor-depositing tungsten film onto the wafer thereby forming a low-resistivity Specifically provided is a method of depositing a tungsten film. film by high pressure MOCVD using low-resistivity tungsten tungsten hexacarbonyl as the precursor. Also provided is a lowresistivity tungsten film.